ALR-1920-120
Multi Purpose LCD Controller Board

Key Features :
> Supports 120Hz panels up to 1920x1200 resolution
> HDMI and DisplayPort input signals
> Advanced image processing
> Designed for commercial display systems

The ALR-1920-120 is a compact and easy to work with controller solution for 120Hz panels up to 1920x1200 resolution. A comprehensive range of features and control options make this ideal for a wide range of commercial display systems.

Panel Connectivity

TFT:	1920x1200 (120Hz or 60Hz)
	1920x1080 (120Hz or 60Hz)
	1280x1024 (60Hz)

Input

HDMI 1.3:	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA, 1080p, 1080i, 720p, 576p, 480p
DisplayPort 1.1a:	60Hz at WUXGA, UXGA, SXGA, WXGA, XGA, SVGA, VGA 1080p, 1080i, 720p, 576p, 480p

Reliability

Calculated Mean Time Between Failure (MTBF): In excess of 200,000 hours.
Warranty: 3 years.

Custom Engineering Services

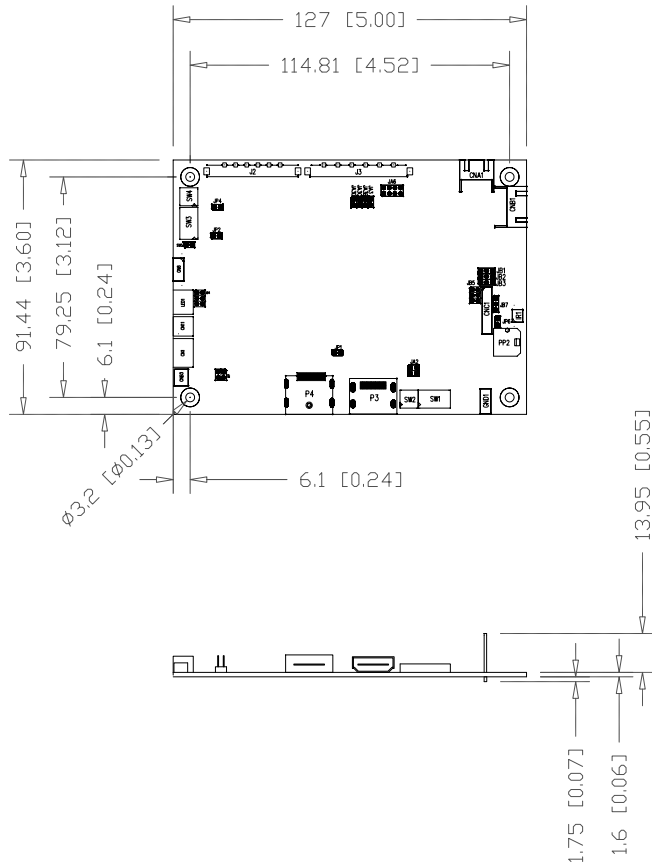Custom input timing, panel timing, splash screen, OSD Menu, conformal coatings, layouts etc

Features

Colors:	Up to 8 bit per color, ie 16.7 million colors.
Functions:	On Screen Display (OSD) menu
Function Controls:	External buttons, IR Remote, RS-232, DDC/CI.
Image Scaling:	Up / Down* scaling to fit input to panel resolution.
Image Control:	Brightness, Contrast, Sharpness, Color temperature, Gamma.
Other Features:	Auto source seek, OSD timeout, OSD position, OSD menu rotation, OSD transparency, select input source.
Dimensions:	127mm x 91.44mm x 17.3mm
Form Factor:	DV standard & mounting holes.
Power Requirements:	+12V/+24VDC ±5%, 4W (controller only)
Panel Power:	Supports 3.3V, 5V, 12V & 18V panels.
Panel Signal:	LVDS (VESA & JEIDA compliant).
Inverter Support:	DPMS, PWM
Plug & Play:	DDC 1,2/b compatible
Controller Status Indicator:	Dual color LED support

* To 50% of the input signal resolution compared to the panel resolution

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Mechanical Drawing

Connector Definitions

CN1	Audio output (Stereo) with amplication from HDMI / Display port
CN8	RS-232 serial control
CN11	SPDIF Audio output
CNA1	Auxiliary power output
CNB1	Backlight inverter
CNB3	Panel backlight control
CNC1	OSD controls
IR1	Infra-Red sensor connector
LED1	Controller status LED (Optional)
J2	LVDS panel signal output 1
J3	LVDS panel signal output 2
P3	HDMI input
P4	Display port input
PP2	Power input

Ordering Options

ALR-1920-120 Controller Board	**P/N 41731003X-3**
Digital OSD button	Kit 67110-3
Horizontal membrane	Kit 67134-3
Vertical membrane	Kit 67135-3
Inverter Interface board	P/N 416040010-3
OSD switch mount cable, 150mm	P/N 426122200-3
IR Remote Control	P/N 559000106-3

3D Drawings (SLDPRT)

Save time and effort for your system volumetric analysis design. Includes jpg file previews.

Available Resources

> Instruction Manual
> Revision Control Documentation**
> Firmware Upgrade Manual**
> Mechanical Drawing
** Available on Request

Controller Solution Generator
http://www.digitalview.com/csg